

FIG. 1

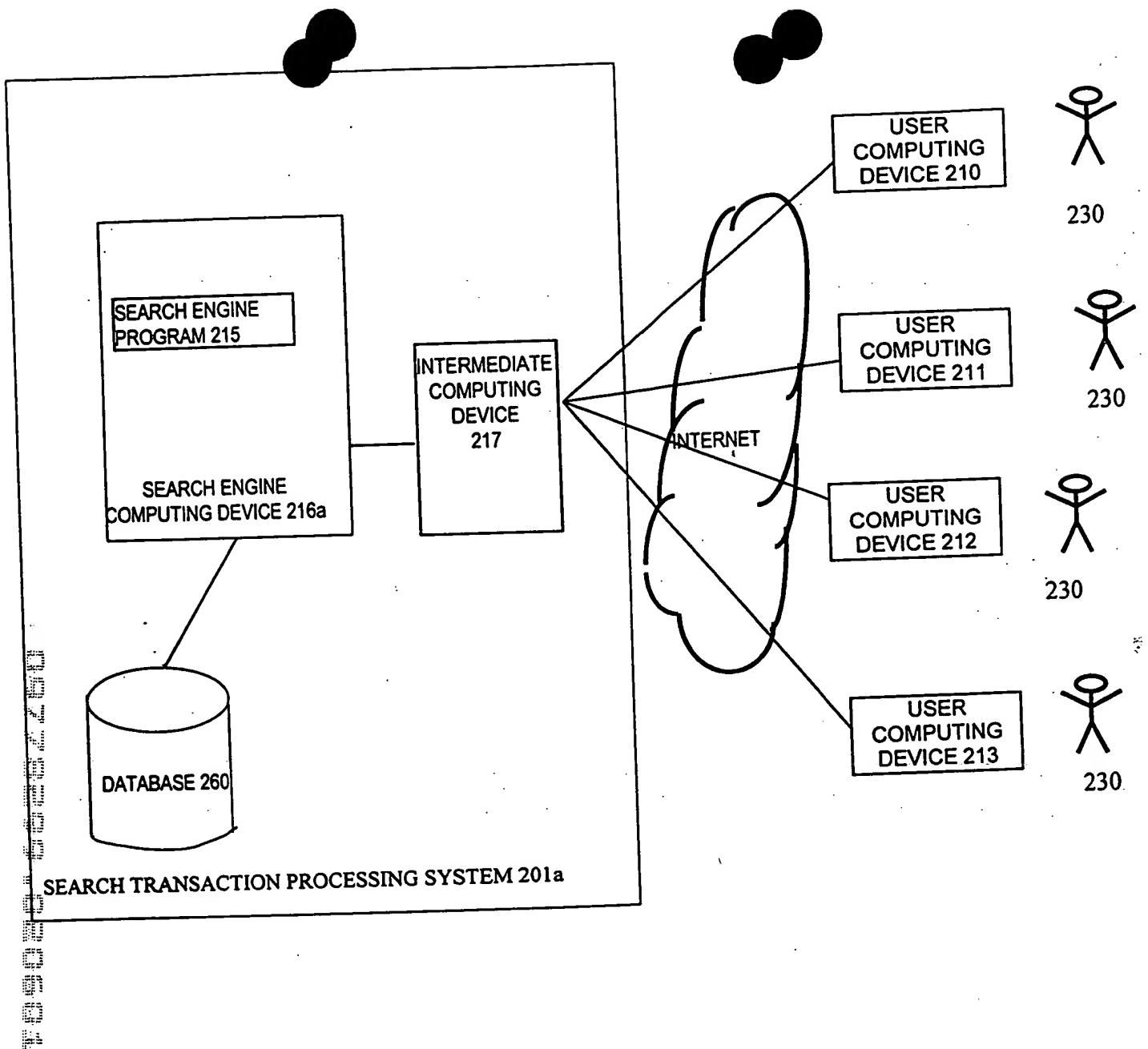
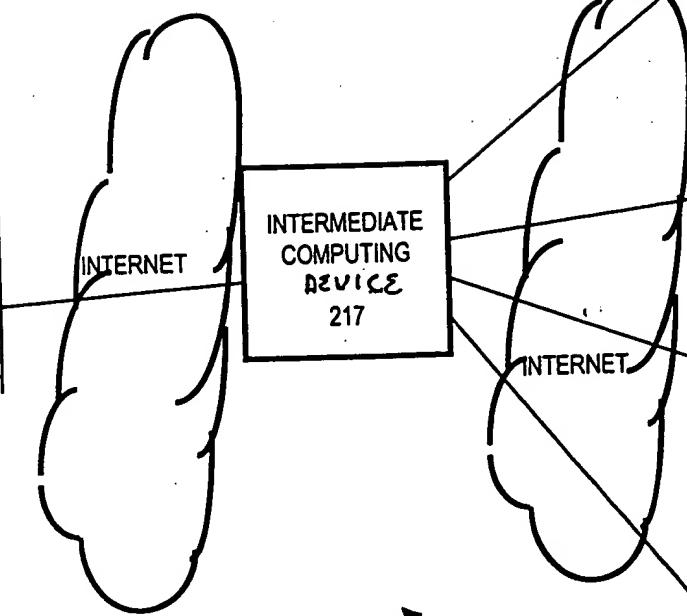
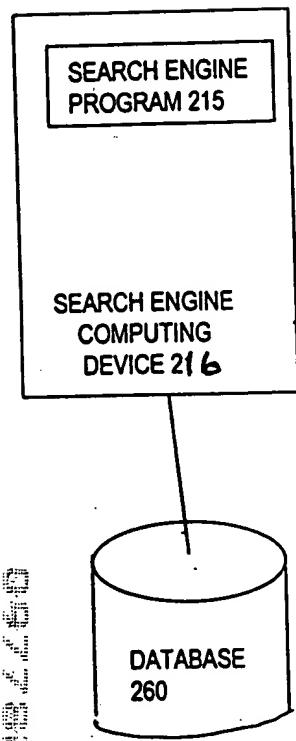


Fig. 2



USER
COMPUTING
DEVICE 210

USER
COMPUTING
DEVICE 211

USER
COMPUTING
DEVICE 212

USER
COMPUTING
DEVICE 213

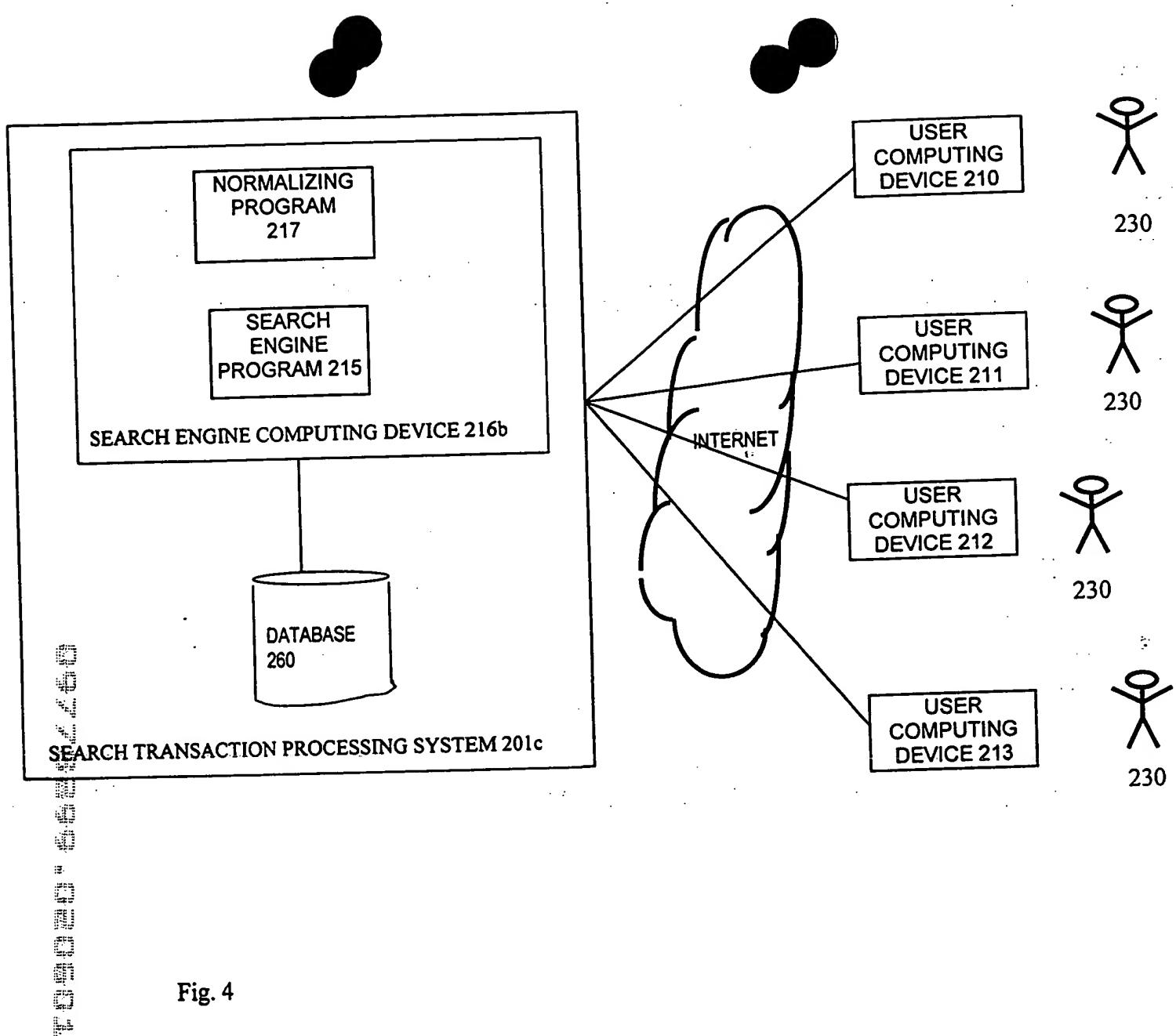
230

230

230

230

Fig. 3



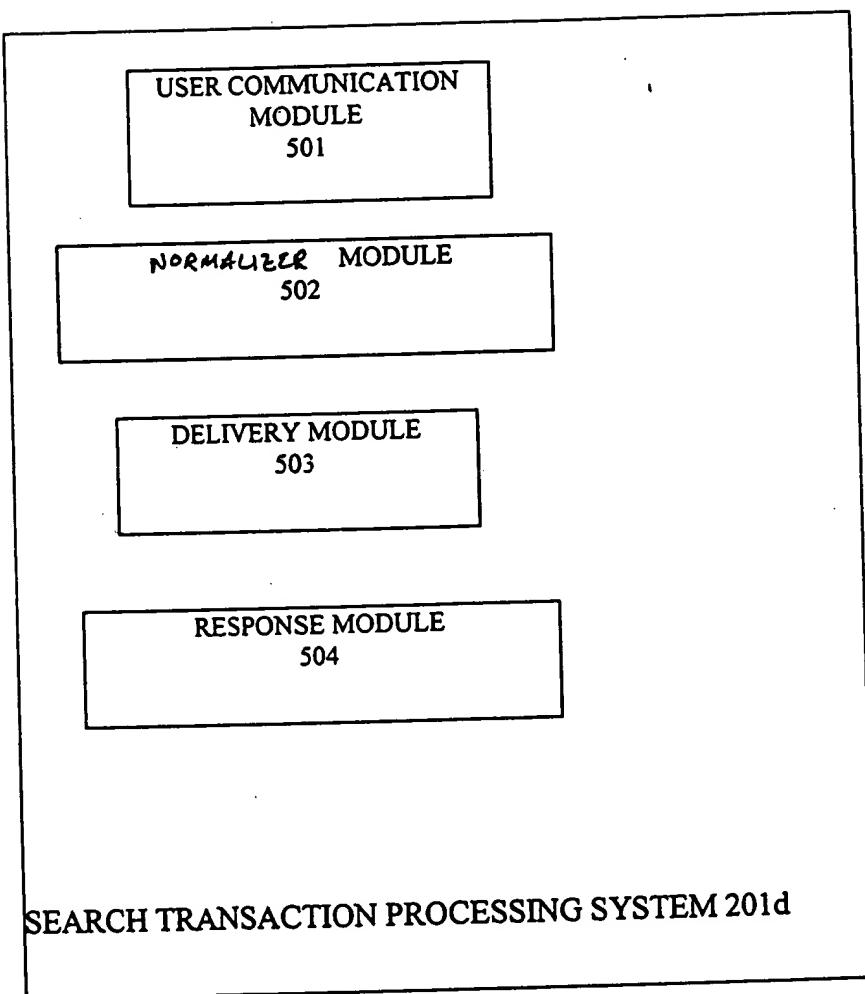


FIG. 5

600 ↘

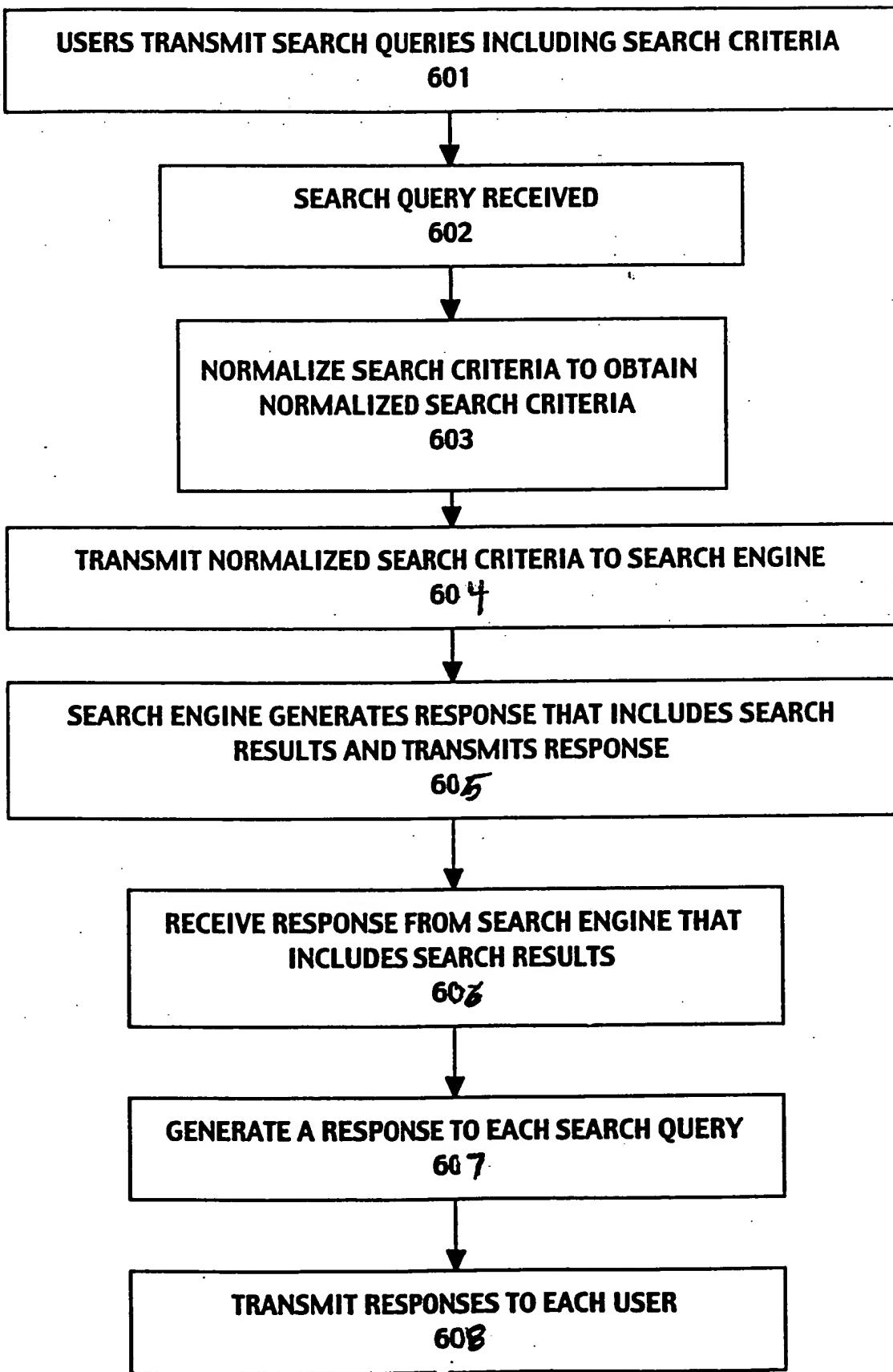


FIG. 6

100

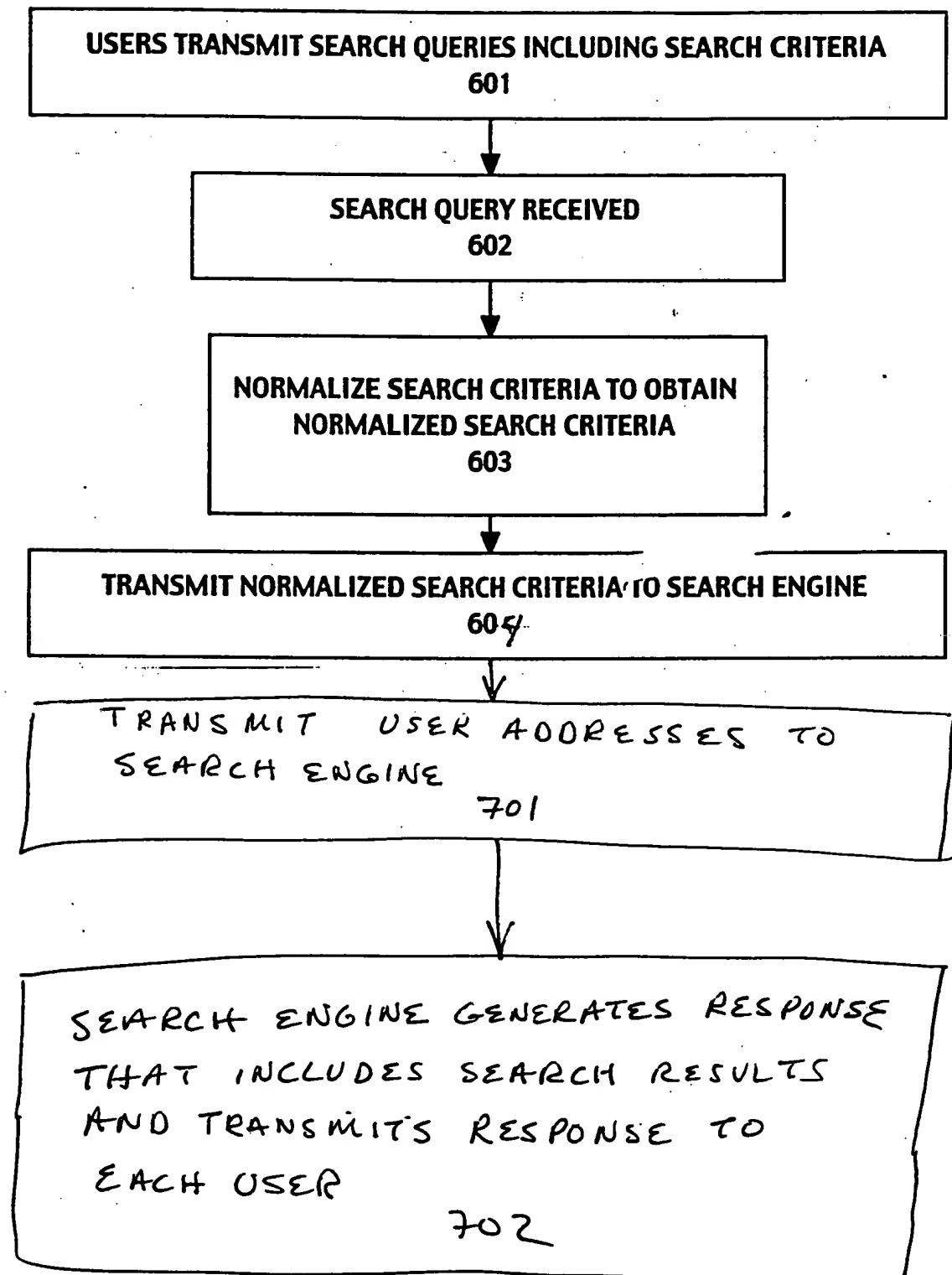


FIG. 7

800

user_id 1-5

USERS 801→

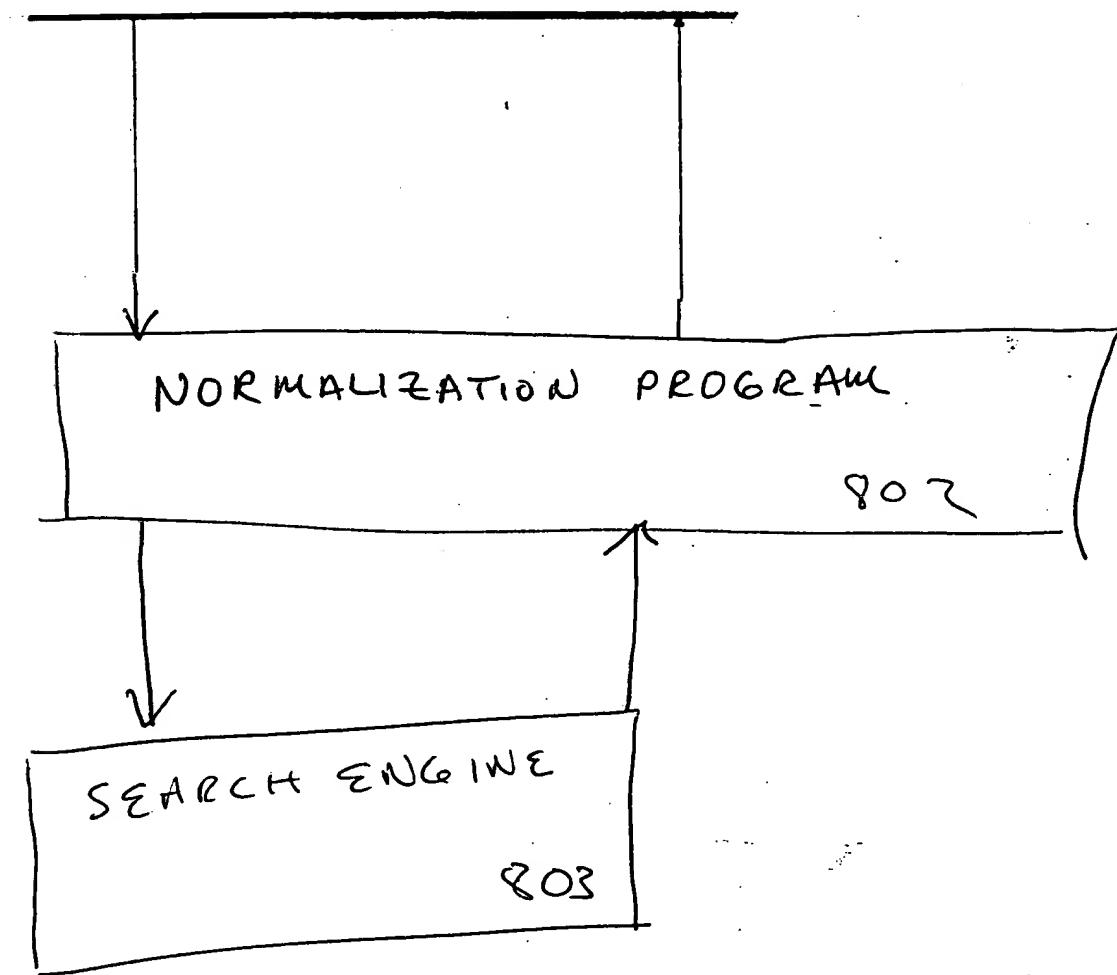
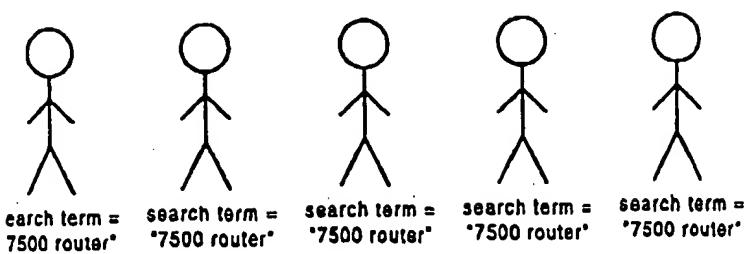


FIG. 8

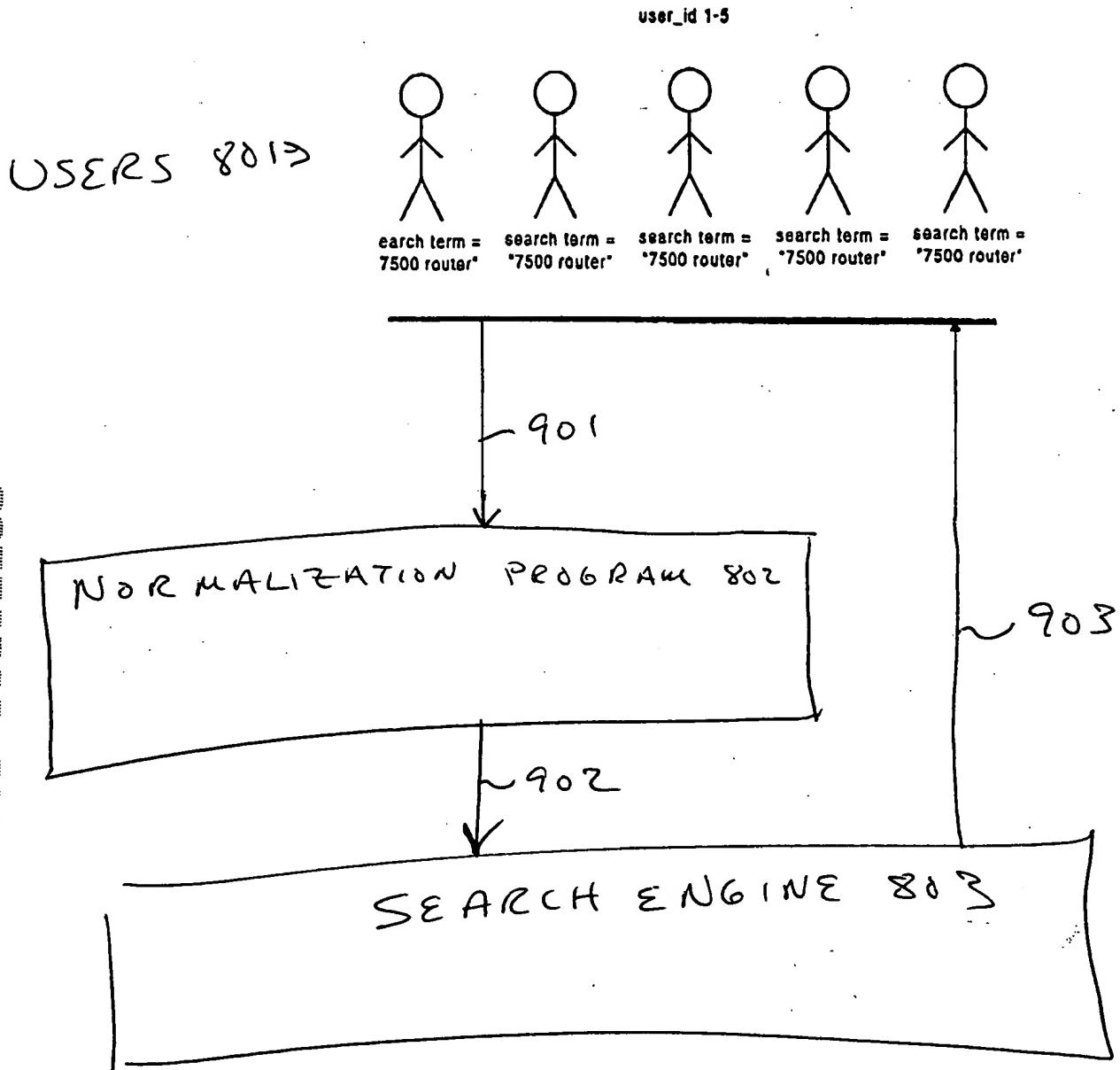


FIG 9